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**From:** Repine, Damon [RepineDL@cdmsmith.com]  
**Sent:** 6/22/2016 5:12:56 PM  
**To:** Cirian, Mike [Cirian.Mike@epa.gov]  
**CC:** Coan, Sean [CoanSM@cdmsmith.com]; Welch, August [WelchA@cdmsmith.com]  
**Subject:** CFAC Phase I CFMW-23A well concerns

Good morning Mike,

Please see write up below address concerns on Phase I site activities at CFAC.

EPA has recently accepted a request via email dated 6/20/2016 by Roux Associates with respect to proposed deep well CFMW-23a. Conditional approval to forgo installation of well CFMW-23a was granted, however EPA requires that a field modification form be prepared and submitted.

Roux stated in their email that bedrock was encountered during drilling borehole CFMW-23a at 148 feet below ground surface (ft bgs), that saturated soil was encountered at 116 ft bgs, and that "existing shallow well CFMW-23 (15 ft from the borehole for CFMW-23a) is screened from 136 to 146, and recently had a measured depth to water of 113, which is expected to decline as the dry weather sets in." Furthermore, Roux stated "based on these findings, regarding the shallow depth to rock, the limited saturated thickness of unconsolidated deposits, and the screen setting of the existing well; it does not make sense to install a well at location CFMW-23a." The SAP states that, "the majority of the proposed Phase I monitoring wells will be installed immediately below the groundwater table." Please include in the field modification the rationale used to determine that the apparent saturated thickness of the aquifer (32 ft) is limited, and that the screened interval in well CFMW-23 is representative of the water table.

Additionally, please provide a figure presenting the location of well CFMW-23 and borehole CFMW-23a with respect to local site features, as well as historical groundwater elevation data from well CFMW-23 (formerly TW-10) to demonstrate the periodicity and magnitude of seasonal groundwater fluctuations in the vicinity of the South Leachate Pond.

**Damon L. Repine, CSP**

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